# AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

| 1. CONTRACT ID CODE | PAGE OF PAGES |
|---|---|
| J | 1 \| 2 |

| 2. AMENDMENT/MODIFICATION NO. | 3. EFFECTIVE DATE | 4. REQUISITION/PURCHASE REQ. NO. | 5. PROJECT NO.(If applicable) |
|---|---|---|---|
| 0005 | 12-Jul-2004 | W81D4A-4020-1314 | |

| 6. ISSUED BY | CODE | 7. ADMINISTERED BY (If other than item 6) | CODE |
|---|---|---|---|
| U.S. ARMY CORPS OF ENGINEERS, CHARLESTON<br>ATTN: CONTRACTING DIVISION<br>69-A HAGOOD AVENUE<br>CHARLESTON SC 29403-5107 | W912HP | **See Item 6** | |

| 8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code) | | |
|---|---|---|
| | X | 9A. AMENDMENT OF SOLICITATION NO.<br>W912HP-04-R-0002 |
| | X | 9B. DATED (SEE ITEM 11)<br>28-May-2004 |
| | | 10A. MOD. OF CONTRACT/ORDER NO. |
| | | 10B. DATED (SEE ITEM 13) |
| CODE / FACILITY CODE | | |

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

[X] The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer [ ] is extended, [X] is not extended.

Offer must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing Items 8 and 15, and returning 1 copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS.
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

[ ] A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.

[ ] B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B).

[ ] C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:

[ ] D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor [ ] is not, [ ] is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

The purpose of this amendment is to provide answers to submitted questions. See attached list of Questions and Answers.

The date and time for receipt of proposals is not extended or changed.

While the date for receipt of offeror questions has passed, we will continue to accept questions. Further questions, however, may or may not be answered by another amendment. Proposals should be prepared based upon information in the Request for Proposals, as amended.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

| 15A. NAME AND TITLE OF SIGNER (Type or print) | 16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)<br>TEL: EMAIL: | |
|---|---|---|
| 15B. CONTRACTOR/OFFEROR<br>_____<br>(Signature of person authorized to sign) | 15C. DATE SIGNED | 16B. UNITED STATES OF AMERICA<br>BY _____<br>(Signature of Contracting Officer) | 16C. DATE SIGNED<br>12-Jul-2004 |

EXCEPTION TO SF 30
APPROVED BY OIRM 11-84

30-105-04

STANDARD FORM 30 (Rev. 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

**SUMMARY OF CHANGES**

Answers to Questions

1. Is a detail available for the 8' ODA Vacuum Manhole on the Raw Water Intake? If yes, please provide.

   **Answer: A detail of the 8' doghouse manhole is provided in .pdf format.**

2. Please provide following data regarding Vertical Turbine Pumps: P-77 1-3 Raw Water Pumps (Installed in Wet Well) what is depth of wet well? P-79 1-3 Finish Water Pumps (Installed in a Can) What is Diameter and length of can? Is there a detailed Drawing for these pump installations? Please advise.

   **Answer: Raw Water Pumps: The depth of the well is 44'-6" (See Drawing #S-23). A detailed drawing for pump installation is shown on Drawing #EN-25.**

   **Finished Water Pumps: The diameter of the can is 48". The length of the can is as required by the pump manufacturer. A detailed drawing for pump installations is provided on Drawing #EN-29.**

3. Is the Baffle Wall detail, sht S23 for the Raw Water PS? If so please provide a scale or a top of wall elevation. We are unsure as to the wall height.

   **Answer: The baffle wall detail on Drawing #S-23 is for the raw water pump station. The wall is 8'-0" high and the top of wall elevation is 55.0'.**

4. Are the below grade walls at the Ammonia Storage/Feed to be CMU as indicate on the typical Architectural details shown on sht A31 or CIP concrete as indicated in the Mechanical details, see sht EN31. We are assuming CIP for containment but no cuts or details for this area are present in the structural drawings. If this is correct please provide reinforcing details.

   **Answer: Below grade walls around Ammonia Storage/Feed pit shall consist of 8 inch CIP concrete walls, reinforced with #5@12" each way, centered in wall. Provide continuous hydrophilic water stop at foundation slab/wall construction joint. Locate CIP wall beneath CMU portion of wall above at exterior wall. Exterior brick shall extend down to the foundation slab. Core drill and set wall dowels for masonry in epoxy adhesive in top of CIP wall. Upper building floor slab shall "float" free of the containment wall, similar to slab shown in H/10/20.**

5. Is the Ammonia Storage/Feed slab to be 6" w/ 6x6 W2.9xW2.9 WWF per note 4& 5 sht S17? Will any additional reinforcing be required due to the storage tank?

   **Answer: Note on Sheet S17 is for upper slab-on-grade. Foundation/Pit Floor Slab shall be 12 inches thickness, reinforced as shown in H/10/20. Extend foundation slab 6 inches minimum beyond the exterior brick line.**

6. Detail C, sht S25 indicates expansion joint material only between the slab of the Sludge Storage Area and the exterior masonry wall of the Sludge Thickener Building. No expansion joint material is indicated in the 1" space between the CIP concrete wall and the exterior masonry of the Sludge Thickener Building. This will only trap and hold sludge.

   **Answer: No additional expansion joint material required.**

7. No structural or architectural details are present for the Backflow Preventer Bldg. We can only assume the slab reinforcing is as typically noted in other buildings, 6x6 W2.9 x W2.9 WWF. Is the vertical masonry reinforcing to be doweled into the lower or upper slabs? What is the spacing and size for vertical masonry reinforcing? Are the mechanical details correct by indicating the walls being brick construction with a CIP concrete top slab? Based on the dimensions the walls appear to be CMU not brick

   **Answer: The slab on grade reinforcing shall be 6x6 W2.9 x W2.9 WWF. Wall section and reinforcing shall be similar to Drawing #A-12 Section 5/3/12. The reinforcing does not dowel into top slab. Walls are brick only.**

8. As indicated in Add 3, many contractors bidding this project have encountered a similar problem with the scale for the entire set of drawings. It has severely delayed our quantity surveys and takeoff. We request a two-week extension to insure proper pricing for this project.

   **Answer: Proposal due date is extended to 21 July 2004, 2:00 PM, EST as stated in Amendment No. 4.**

9. On Sheet E-33 a "SCADA Radio" is shown. There is also an antenna associated with the SCADA system. I cannot find any specifications on this system. Do we furnish a SCADA system? Also, on sheet E-33 several "RTUs" are shown. Is this part of the SCADA system? If so, where are specs?

   **Answer: The antenna and radio are to be provided by the SCADA integrator (HUA) and are not included in this contract. Cable shall be provided according to electrical plans and specifications.**

10. Reference drawing EN-25, Inlet Pipe Elevation. The 42" HDPE line is indicated passing through the 1" thick steel end plate which is welded to the 60" diameter steel sleeve. The steel sleeve is indicated to be welded water tight against the sheet piling wall, however, there is not indication of how the 42" HDPE piping is to be sealed where it passes through the 1" thick steel plate. Please provide additional information regarding the sealing of this penetration.

    **Answer: The HDPE to DI transition fitting is shown on Drawing #EN-25. Section 3/25/25 indicates a split sleeve to go around the pipe. This split sleeve should be fabricated to minimize infiltration /exfiltration.**

11. Please reference the Raw Water Pump Station Sheet piling Drawings S-23 and Solis Consultants subsurface report, specifically Boring B-7 at the proposed raw Water P.S. Per boring B-7, penetration resistance encountered (blow counts) for depths between 60 and 66 feet from existing ground surface of +/- El. 90.00 increases rapidly from 50 to 100 blow count material. Boring was terminated at 65 feet depth which equates to +/- El. 25.00. Minimum pile tip elevation indicated on dwg. S-23 is El. 29.00. Will the minimum pile tip elevation of El. 29.00 be enforced or required even if pile driving resistance encountered is such that the piling load support reaches or exceeds the 10 kips/LF designated in the narrative of the soils report? Note the soils report recommends a pile tip elevation of El. 31.00. Please provide clarification for this condition.

    **Answer: The sheet piles should be installed to the recommended depth of 62 feet below the existing ground surface as indicated in Addendum II to our original report, dated February 11, 2003. Two additional feet of penetration were added to the original 60 feet when the required axial capacity was increased from 10 kips to 18 kips per lineal foot.**

12. Refer to Raw Water Intake Drawings "RW" series and specification section 02456A H Piles. Note 1 on RW-5 states " Contractor must maintain a top of pipe elevation of less than 68.0 MSL at all times". Please clarify what the meaning of "at all times" is. If this note is applicable during installation of the sub aqueous pipeline or only after line has been installed. If note is applicable during installation does that

mean that the pipe cannot be floated during installation and must be submerged from the shore line to the intake screens location in the lake during installation?

**Answer: The top of pipe elevation of the HDPE pipe material "installed" in the lake shall not exceed 68.0' msl.**

13. Refer to Raw Water Intake Drawings "RW" series and specification section 02456A H Piles. Detail on dwg. RW-5 indicates pipe trench in lake bottom and note indicates that Contractor is not responsible for the backfilling of the lake bottom trench. We can find no information regarding the disposition of the excavated material from the trench during pipeline construction. Does this material have to be removed from the lake? Please provide clarification for this disposition of excavated materials.

    **Answer: Excavated material does not have to be removed from the lake. The excavated material shall be placed adjacent to the trench. Contractor is not required to backfill trench.**

14. Refer to Raw Water Intake Drawings "RW" series and specification section 02456A H Piles. Dwg. RW-1 indicates required pile sizes and pile tip depths. Specification section 02456A for H Piles, para 1.02 requires that a subsurface investigation and report be performed and provided with design parameters. If pile size and tip elevations have already been established on the drawings by the Engineer, then is this subsurface report still required? What if the independent report recommends different pile sizes, loads, depths? Please clarify/advise.

    **Answer: Subsurface investigation <u>will</u> be required. Contractor shall bid installation as indicated on the plans and specifications.**

15. A steel sheet pile wall has been designed for the above mention project at Lake Marion. The sheet pile specified is PZ-40. This sheet is not currently being produced. An equivalent alternate named AZ-36. AZ-36 has been used on many Army Corps of Engineers projects as an alternate to PZ-40. Please see the attached specification sheet for the design properties.

    **Answer: AZ-36 is an acceptable alternate.**

16. Looking at the borings, it's going to be virtually impossible to drive the sheeting in the cofferdam without excavating as it goes down. On Sheet S-23, it shows the last 2 feet as being undisturbed soil. Could that soild not be removed, replaced, and properly compacted? This would be done in approximately 2 foot lifts ahead of the toe of the sheeting in order to get the sheeting down to the elevation of 29 feet, as required. Has a decision been made on the sheet pile? The section specified is no longer manufactured.

    **Answer: The soil identified on Sheet S-23 as undisturbed soil, which extends from a depth of approximately 49 feet below existing grade to 62 feet, should remain undisturbed. The skin friction generated by penetration of the sheet pile into this soil is depended upon to provide axial capacity. For sheet pile, see question 15.**

17. I can find no information in the specs on the HD-PE pipe for the intake line from the lake up to the plant. If there are sections in there that I am missing, I would appreciate a call. If not, will a section be issued?

    **Answer: The specifications for HDPE pipe are included in Section 15200, Paragraph 2.9.**

18. Are thrust blocks allowed for restraining D.I. pressure piping? If no, are TRFLEX and MEGALUG allowed for restraint?

    **Answer: Thrust blocks are not allowed for restraining DI pressure piping. Mechanical restraints provided shall meet the specifications. Specific approval of equipment cannot be made at this time.**

19. The Pipe Specification calls for "seamless" pipe. Stainless Steel pipe is not available above 12" dia. with out a "special mill run". With the "low quantities" as shown on the drawings & as specified a "special mill run" would cost approximately 6 to 10 times per foot more than if welded pipe were to be used. If welded stainless steel pipe should be accepted & allowed, would welded fitting also be accepted?

    **Answer: Welded stainless steel pipe and fittings are acceptable for pipe sizes above 12" dia.**

20. Flanges above 24" dia. come in three (3) different bolt patterns. What is the "bolt pattern" on the 36" dia. D.I.P. flange the stainless steel will be connecting to?

    **Answer: Flanges shall be AWWA C115 and ANSI B16.1 (Class 125).**

21. Will Mitered 90 degree ells be acceptable in sizes larger than 24" diameter?

    **Answer: Mitered 90 degree ells are acceptable on pipe sizes larger than 24" dia.**

22. What is the "wall thickness" on the tubing used for pneumatic air distribution?

    **Answer: Wall thickness is based on pressure rating and type of material. Minimum pressure for pneumatic air distribution is 100 psig or per specifications based on material, whichever is greater.**

23. What is the "Gasket Spec" for:
    Stainless Steel Systems?
    PVC/CPVC Chemical Systems?

    **Answer: Gasket material shall be standard for material and chemical used (i.e. gasket material for PVC flanged fittings for sodium hypochlorite shall be suitable for sodium hypochlorite as provided in specifications).**

24. Is Domestic only material required?

    **Answer: The Buy American Act applies to this contract. Generally, unless exempted by a trade agreement or waiver, all material must be domestic. See clauses 52.225-11 (Section 00700) and 52.225-12 (Section 00100) for details.**

25. In reference to H-Piles shown @ the proposed "Intake Sceen Location"
    (dwg #RW-1)-- Is geotechnical information available that would clarify any existing rock in this area. If rock would be encountered, would Government compensate Contractor for any blasting & removal of rock?

    **Answer: Geotechnical investigation will be required. The piles size and length specified shall be used for bidding the project.**

26. During "Start'Up & Commissioning" of the WTP System, where can Plant Effluent water be discharged to?

    **Answer: Discharge of plant effluent during start-up shall be coordinated with pipeline construction (not this contract) or discharged to storm drainage system through drains on the clearwells.**

27. Verify "Detention Pond (as shown on dwg # G-9) could be constructed with out a liner. Detention Pond without liner may cause sink hole conditions as per geologist comments for this area.

    **Answer: A liner is not required for the detention pond.**

28. Will Owner have the "Distribution Line" in place prior to completion of this contract?

    **Answer: The current schedule for construction indicates the distribution line installed prior to start up for the WTP.**

29. Please advise as to which Bid Item we should include the GAC System???

    **Answer: CLIN 0006, Treatment Building**

30. RFP Section 13208N Page 2 Paragraph 1.2. Only AWWA D110 Type II tanks are built in the southeastern US. Type I tanks are built by one supplier on the west coast. We request you allow type II or III type tanks.

    Answer: **The following change shall be made to the specifications:**

    **Section 13208N, Page 2, Paragraph 1.2, revise first sentence to read "Construct concrete water tank AWWA D110, Type II".**

31. The GAC controls are to be part of Item 0010 and the GAC Concrete is to be part of Item 0011. Which Item should the GAC media (Section 11225A) and the GAC media bottoms (Section 11316) be in?

    **Answer: CLIN 0006, Treatment Building**

32. No specific style of brick is specified. Is there something specific intended or will any meet spec be acceptable?

    **Answer: Brick provided shall meet the specifications.**

33. Will the proposals be opened publicly and the bid prices read aloud?

    **Answer: This is not an Invitation for Bid. This is a Request for Proposals. No, the proposals will not be opened publicly and the bid prices will not be read aloud.**

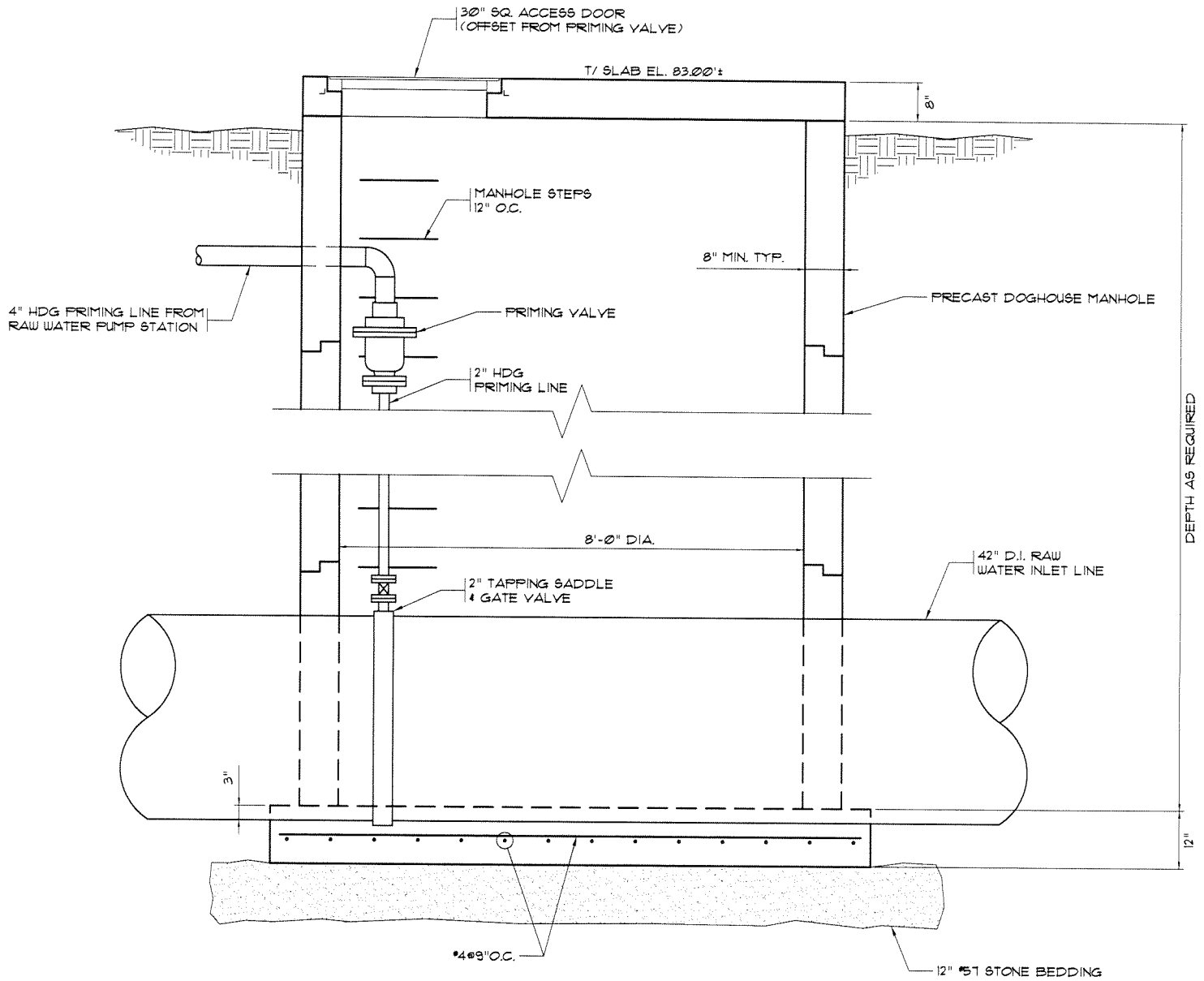
34. Request approval for the following equipment to be quoted. Items quoted will be in accordance with the plans and specifications.
    Air Distribution: Tuttle & Bailey
    Electric Unit Heaters: Redd-l
    Fans: Carnes, Coolair, ILG, New York Blower
    Automatic Dampers: Arrow

    **Answer: All equipment shall meet the plans and specifications. Specific approval of equipment cannot be made at this time.**

35. We would like to bid ABB, Inc. variable speed drives to the contractor bidding. Please confirm that you will approve ABB, Inc. ACS800 series drive for this project.

    **Answer: All equipment shall meet the plans and specifications. Specific approval of equipment cannot be made at this time.**

(End of Summary of Changes)




# VACUUM PRIMING SYSTEM DOGHOUSE MANHOLE DETAIL

N.T.S.